

WHAT IS CLAIMED:

1. A method of adhering two or more components together, the method comprising:
 - a) exposing at least one of a first component that includes cellulose ester fibers and a second component that includes a cellulose ester to a plasticizing solvent;
 - b) contacting the first component and the second component together to form a compound structure; and
 - c) curing the compound structure so that the first component and the second component become adhered together.
2. The method of claim 1 wherein the cellulose ester fibers comprise a component selected from the group consisting of cellulose acetate, cellulose propionate, cellulose butyrate, cellulose acetate-propionate, cellulose acetate-butyrate, cellulose propionate-butyrate, and mixtures thereof.
3. The method of claim 1 wherein the cellulose ester fibers comprise cellulose acetate.
4. The method of claim 1 wherein the second component comprises a component selected from the group consisting of cellulose acetate, cellulose propionate, cellulose butyrate, cellulose acetate-propionate, cellulose acetate-butyrate, cellulose propionate-butyrate, and mixtures thereof.
5. The method of claim 4 wherein the second component comprises cellulose acetate.
6. The method of claim 1 wherein the second component is a paper.

7. The method of claim 6 wherein the second component further comprises cellulose.

5 8. The method of claim 1 wherein the plasticizing solvent is selected from the group consisting of dimethoxy ethyl phthalate, triacetin, polyethylene glycol, triethylene glycol diacetate, diethylene glycol diacetate, diethylene glycol dipropionate, diethylene glycol acetate propionate, diethylene glycol monopropionate, and mixtures thereof.

10 9. The method of claim 1 wherein the step of exposing at least one of the components to a plasticizing solvent comprises spraying, dipping, brushing, or a combination thereof.

15 10. The method of claim 1 wherein the first component is a first layer of a multilayer automobile headliner and the second component is a second layer of a multilayer headliner.

20 11. The method of claim 1 wherein the first component is adhered to the second component to form a filter.

25 12. A method of making a filter, the method comprising:
a) exposing an aggregation of cellulose ester fibers to a plasticizing solvent;
b) contacting the aggregation of cellulose ester fibers exposed to the plasticizing solvent with a cellulose ester-containing substrate; and
c) curing the aggregation of cellulose ester fibers contacted to the substrate so that the substrate is adhered to the aggregation of cellulose ester fibers.

30 13. The method of claim 12 wherein prior to step b, either the aggregation of fibers, the cellulose ester-containing substrate, or both the aggregation of

fibers and the substrate are exposed to one or more additional applications of the same or a different solvent.

5 14. The method of claim 12 wherein the plasticizing solvent is selected from the group consisting of dimethoxy ethyl phthalate, triacetin, polyethylene glycol, triethylene glycol diacetate, diethylene glycol diacetate, diethylene glycol dipropionate, diethylene glycol acetate propionate, diethylene glycol monopropionate, and mixtures thereof

10 15. The method of claim 12 wherein the step of exposing the aggregation of cellulose ester fibers to a plasticizing solvent comprises spraying, dipping, brushing, or a combination thereof.

15 16. The method of claim 12 wherein the cellulose ester-containing substrate is a paper.

 17. The method of claim 16 wherein the step of contacting the aggregation of cellulose ester fibers with a substrate comprises wrapping the aggregation of cellulose ester fibers with the substrate.

20 18. The method of claim 17 wherein the filter is a cigarette filter.

 19. The method of claim 12 wherein the cellulose ester-containing substrate comprises a component selected from the group consisting of cellulose acetate, cellulose propionate, cellulose butyrate, cellulose acetate-propionate, cellulose acetate-butylate, cellulose propionate-butylate, and mixtures thereof.

 20. The method of claim 12 wherein the cellulose ester-containing substrate comprises cellulose acetate.

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21. The method of claim 12 wherein the cellulose ester fibers comprise cellulose acetate.

5 22. A filter comprising:
an aggregation of cellulose ester fibers;
a cellulose ester-containing substrate disposed over the aggregation of cellulose ester fibers; and
a solvent bond between the aggregation of cellulose ester fibers and the cellulose ester-containing substrate that adheres the aggregation of cellulose ester fibers
10 and the cellulose ester-containing substrate together.

23. The filter of claim 22 where the solvent bond is formed by evaporating a solvent applied to one or both of the aggregation of cellulose ester fibers or the cellulose ester-containing substrate.

15 24. The filter of claim 22 where the solvent bond is formed by absorbing a solvent into one or both of a surface of the aggregation of cellulose ester fibers or a surface of the cellulose ester-containing substrate.

20 25. The filter of claim 22 wherein the cellulose ester fibers comprise cellulose acetate.

26. The filter of claim 22 wherein the cellulose ester-containing substrate comprises a component selected from the group consisting of cellulose acetate,
25 cellulose propionate, cellulose butyrate, cellulose acetate-propionate, cellulose acetate-butylate, cellulose propionate-butylate, and mixtures thereof.

27. The filter of claim 22 wherein the cellulose ester-containing substrate is a paper.

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28. The filter of claim 22 wherein the cellulose ester-containing substrate comprises cellulose acetate.

5 29. The filter of claim 28 wherein the cellulose ester-containing substrate further comprises cellulose.

30. The filter of claim 25 that is a cigarette filter, and wherein the cellulose ester-containing substrate is a paper comprising cellulose acetate and cellulose.

10 31. A method of attaching a headliner to a vehicle passenger compartment ceiling, the headliner having a surface layer with cellulose acetate fibers incorporated therein, the method comprising:

- a) applying a cellulose ester-containing composition to the vehicle compartment ceiling to form a coated vehicle compartment ceiling;
- 15 b) exposing at least one of the surface layer or the coated vehicle compartment ceiling to a plasticizing solvent;
- c) contacting the surface layer and the coated vehicle compartment ceiling together to form a compound headliner-ceiling structure; and
- d) curing the compound headliner-ceiling structure so that the surface
20 layer and the coated vehicle compartment ceiling become adhered together.

32. The method of claim 31 wherein the cellulose ester fibers comprise a component selected from the group consisting of cellulose acetate, cellulose propionate, cellulose butyrate, cellulose acetate-propionate, cellulose acetate-butyrate,
25 cellulose propionate-butyrate, and mixtures thereof.

33. The method of claim 31 wherein the cellulose ester-containing composition independently comprise a component selected from the group consisting of cellulose acetate, cellulose propionate, cellulose butyrate, cellulose acetate-propionate,
30 cellulose acetate-butyrate, cellulose propionate-butyrate, and mixtures thereof.

34. The method of claim 31 wherein the cellulose ester fibers comprise cellulose acetate and the cellulose ester-containing composition comprises cellulose acetate.

5 35. A headliner made according to the method of claim 31.